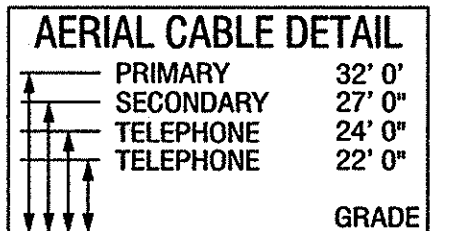
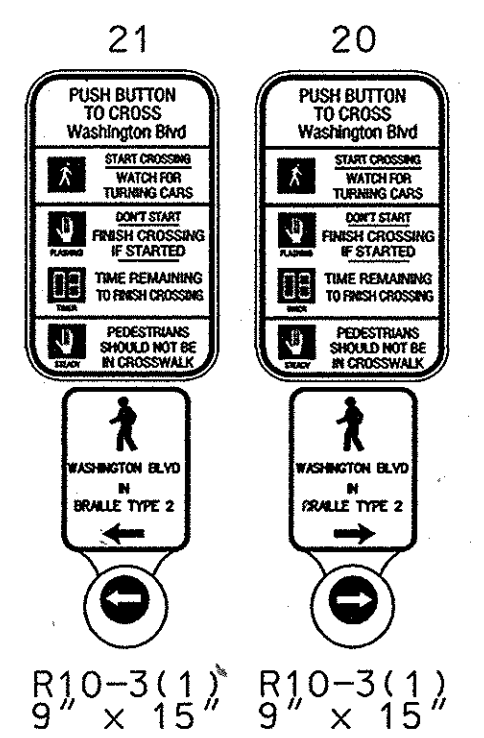
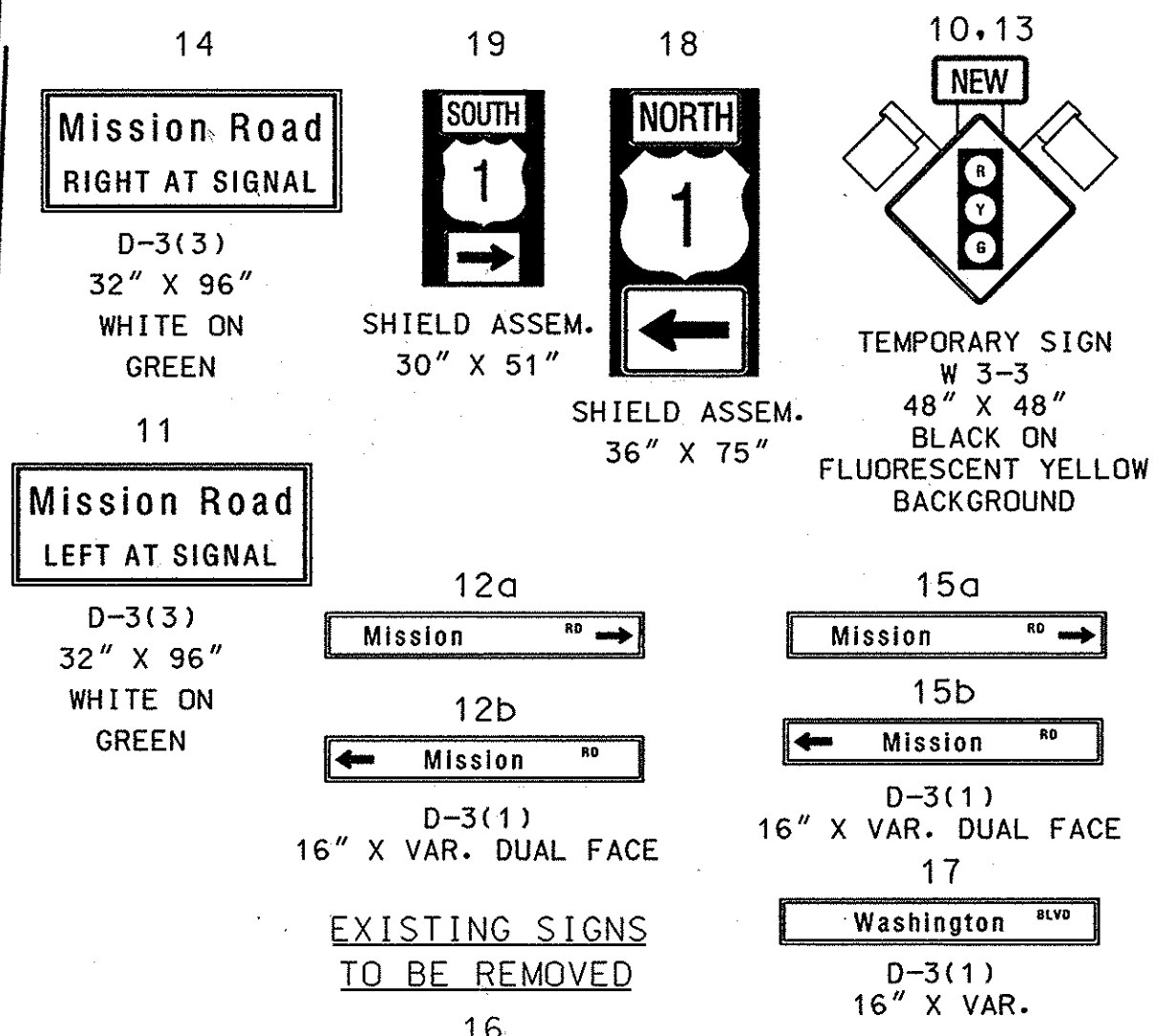


US 1 IS CONSIDER TO RUN IN A NORTH/SOUTH DIRECTION

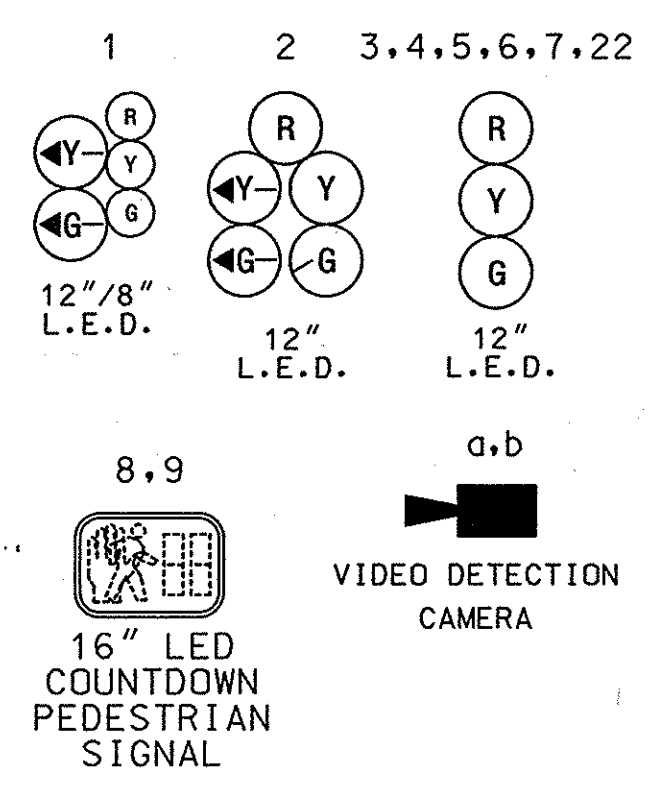
PROPOSED SIGNS



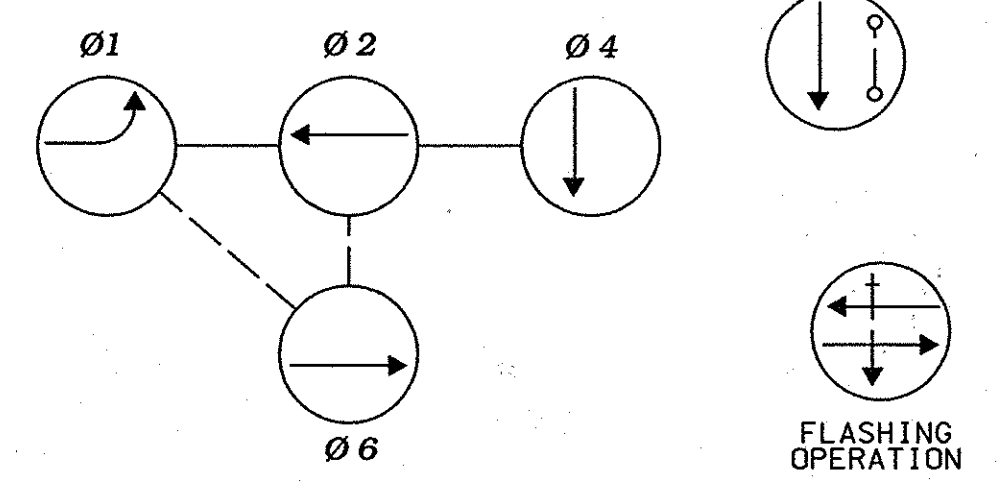
PROPOSED SIGNS



PROPOSED SIGNALS



PROPOSED NEMA PHASING



NOTES:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
NORTHBOUND LEFT TURN WILL LAG BEHIND PHASE 2 AND 6.

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF 1 YEAR FROM THE DATE OF APPROVAL. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL BE NULL AND VOID WITHOUT A RE-REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION - SHA.

US 1 (Washington Blvd) SB.

US 1 (Washington Blvd) NB.

CONSTRUCTION DETAILS

- INSTALL 23 FT. STEEL TWIN MAST ARM POLE (CUT FROM A 27 FT. POLE) WITH A 50 FT. AND 70 FT. MAST ARMS, VEHICLE SIGNAL HEADS AND SIGN (NOTE: 3 IN. PVC CONDUIT BEND). THE 70 FT MAST ARM IS FOR FUTURE USE BY OTHERS.
- INSTALL 21 FT. STEEL TWIN MAST ARM POLE (CUT FROM A 27 FT. POLE) WITH 70 FT. AND 50 FT. MAST ARMS, VEHICLE SIGNAL HEADS, SIGNS, VIDEO DETECTION AND COUNTDOWN PEDESTRIAN SIGNAL HEAD (NOTE: ONE 3 IN. PVC CONDUIT BEND).
- INSTALL BASE MOUNTED NEMA SIX CABINET / CONTROLLER AND ALL NECESSARY EQUIPMENT.
- INSTALL HANDHOLE.
- INSTALL 10 FT. STEEL PEDESTAL POLE ON BREAK-AWAY BASE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PEDESTRIAN PUSHBUTTON, AND PEDESTRIAN INSTRUCTIONAL SIGN. (NOTE: ONE 3 IN. PVC CONDUIT BEND).
- INSTALL METERED SERVICE PEDESTAL FOR UNDERGROUND ELECTRICAL SERVICE PER MD-SHA TYPICAL 807-05-01.
- INSTALL 3 IN. POLYVINYL CHLORIDE [SCHEDULE 80] ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 3 IN. POLYVINYL CHLORIDE [SCHEDULE 80] ELECTRICAL CONDUIT - BORED.
- INSTALL 4 IN. POLYVINYL CHLORIDE [SCHEDULE 80] ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 4 IN. POLYVINYL CHLORIDE [SCHEDULE 80] ELECTRICAL CONDUIT - BORED.
- INSTALL NON-INVASIVE MICRO-LOOP PROBE (SET OF 3).
- INSTALL 24 IN. WIDE PAVEMENT MARKING - WHITE FOR STOP LINE.
- REMOVE EXISTING GROUND MOUNTED SIGN.
- INSTALL GROUND MOUNTED SIGN.
- INSTALL 2 IN. POLYVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 12 IN. WIDE PAVEMENT MARKING - WHITE FOR CROSSWALK.
- PROPOSED 4 IN. ELECTRICAL CONDUIT FOR UNDERGROUND ELECTRICAL SERVICE - TRENCHED.
- INSTALL 3 IN. POLYVINYL CHLORIDE [SCHEDULE 80] ELECTRICAL CONDUIT - TRENCHED DURING CONSTRUCTION.
- INSTALL MICRO-LOOP PROBE (SET OF 3).
- INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE).

GENERAL NOTES

- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS ARE TO BE CONSIDERED AS EXISTING.
- GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 IN. FROM A 60 IN. x 60 IN. LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- THE LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 & FIG 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING APS EQUIPMENT FOR PROGRAMING TO MD-SHA SIGNAL SHOP.
- ALL UNUSED CABLE SHALL BE REMOVED.

GEOMETRIC LEGEND

EXISTING
PROPOSED

- UTILITY LEGEND
- D - STORM DRAIN
 - G - GAS MAIN
 - W - WATER MAIN
 - S - SEWER MAIN
 - E - ELECTRICAL CABLES
 - A - AERIAL CABLES
 - T - TELEPHONE CABLES
 - F - FIBER-OPTIC



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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US1 (Washington Blvd) at Mission Road

TRAFFIC SIGNAL PLAN

SCALE: 1" = 20'. ADVERTISED DATE: 05/27/08. CONTRACT NO.: BW996M82

DESIGNED BY: B. Kilian COUNTY: Howard
DRAWN BY: B. Kilian LOGMILE: 13000104.76
CHECKED BY: [Signature] TMS NO.: 1-287
F.A.P. NO.: N/A TOD NO.:
TS NO. 4578 DRAWING - OF SHEET NO. 1 OF 3

APPROVALS

DESIGNED BY: [Signature] 7/2/08
CHECKED BY: [Signature] 7-3-08
OFFICE DIRECTOR: [Signature] 7/10

PLOTTED: Wednesday, July 02, 2008 AT 10:10 AM
FILE: F:\2005\2005-1004\Drawings\PG-P001_US1.dgn